

International Symposium on Management of Emerging Pollutants in Water and Waste

Organizers:

- Department of Environmental Engineering, Graduate School of Engineering, Kyoto University
- Graduate School of Global Environmental Studies, Kyoto University
- Kyoto University On-site Laboratory, Kyoto University – Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET)

Co-Organizers:

- The Sakura Invitation Program (JST) with the title: "Integration of Science and Technology for the Solution of Environmental Pollutants in the Mining Area in Botswana".
- Research Project of Innovative Circular Resource System Engineering, Kyoto University
- Environment Research and Technology Development Fund (JPMEERF21S11930) of the Environmental Restoration and Conservation Agency of Japan

Date and Time: September 13, 13:00-17:15 (JST)

Venue: Kyoto University Katsura campus, C1 building, 3F, Room Jin-Yu,
Zoom online (Hybrid)

Registration Fee

There is no registration fee to attend the symposium. Symposium dinner fees will be collected at reception.



Program:

13:00-13:10 *Opening remarks* (Prof. Taku Fujiwara)

13:10-13:40 *One health approach in environmental engineering* (Associate Prof. Aneta Łuczkiwicz, Gdańsk University of Technology)

13:40-14:10 *Fiber optic sensors for waste water monitoring* (Associate Prof. Małgorzata Szczerska, Gdańsk University of Technology)

14:10-14:30 *Energy crops as phytoremediation agents for heavy metal contaminants in fly ash dump sites* (Katumelo Gajaje, 4th year PhD student, BIUST, Botswana)

14:30-14:50 *Influence of perennial grass hyperaccumulators on the rhizosphere's chemical properties and heavy metal speciation* (Gorata Diboko, 2nd year Msc student, BIUST, Botswana)

Coffee break

15:10-15:40 *Behavior of Microplastics in Wastewater Treatment Plants throughout Japan* (Associate Prof. Shuhei Tanaka, Kyoto University) **online**

15:40-16:00 *Smartphone-enabled analytics for environmental monitoring in remote and resource poor areas* (Prof. Izabela Rzeznicka, Shibaura Institute of Technology, Professor)

16:00-16:20 *Development of a rotating advanced oxidation contactor for removing trace organic contaminants from real wastewater* (Assistant Prof. Youhei Nomura, Kyoto University)

16:20-16:40 *PPCPs degradation and byproducts formation during ammonia/chlorine oxidation process* (Assistant Prof. Ye BEI, Kyoto University/Tsinghua University)

16:40-17:10 *Characterization and prediction of disinfection byproducts from anthropogenic compounds* (Prof. Sinya Echigo, Kyoto University)

17:10-17:15 *Closing remarks* (Prof. Shinya Echigo)

Symposium Dinner:

Application form (Deadline, for those attending the dinner: September 8, 12:00 JST; for others: September 13, 10:00 JST)

<https://forms.gle/Cjrch7XQYqhJ7V25A>